

Title (en)

Methods and apparatus for reducing spectral artifacts in a computed tomograph system

Title (de)

Verfahren und Vorrichtung zur Verringerung von spektralen Artefakten im Computer-Tomographiesystem

Title (fr)

Procédé et appareil pour la réduction l'artefact spectral dans un systeme tomographique à ordinateur

Publication

EP 0973048 A3 20020731 (EN)

Application

EP 99305495 A 19990712

Priority

US 11839798 A 19980717

Abstract (en)

[origin: EP0973048A2] Methods and apparatus for reducing spectral artifacts in a computed tomography (CT) system (10) are described. In one embodiment, the CT system (10) includes a plurality of multislice detector modules (20), a detector housing (50) and a collimator (62) adjacent the detector modules (20). Each detector module (20) is mounted to the detector housing (50) and includes a scintillator array (56). The collimator (62) includes a plurality of plates (64) that are positioned so that a x-ray beam shadow is centered over gaps in the scintillator array (56). In operation, the collimator (62) separates the x-ray beams (16) so that the scintillator gaps are protected and the x-ray beams (16) are prevented from projecting through the scintillator array elements along a shortened length path. <IMAGE> <IMAGE>

IPC 1-7

G01T 1/29; **G01T 1/00**; **G01T 1/164**

IPC 8 full level

A61B 6/03 (2006.01); **A61B 6/00** (2006.01); **A61B 6/06** (2006.01); **G01T 1/00** (2006.01); **G01T 1/164** (2006.01); **G01T 1/29** (2006.01)

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Citation (search report)

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- [X] US 4731534 A 19880315 - KLEIN SIGISMUND [DE], et al
- [X] US 4180737 A 19791225 - KINGSLEY JACK D [US]

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